ATABL 7800 PROSTSTENS

The following documents the user interface and coding standards

desired for 7500 cases. This is meant both to provide a quide to program development and as a check list for finished carts please compare these against any existing games. Some of these standards are changed, and they superorde provious standards Note that there standards may be waived on a case-My-case basis to maintain copyright loyalty or for games with special requirements.

SECTION I: USER INTERFACE

Dames should power-up displaying a TITLE FACE abould be single player and DEFAULT DIFFICULTY Seconds the game should go into AUTO-FLAY mode game alternates between TITLE FACE and AUTO-FLAY.

I.1 1) Title Page

title and logo The ATABI copyright MusT appear in the form

games may also require a copyright message for the licensor Text to be specified on a per-made basis

1 2) dame Select Meru

all games should have a MENU page which clearly shows all uses

changed all scores must be seroed

The TITLE PAGE should contain spiffy graphics including the game

copyright 1987 Aters Cormeration where (r) with he a 'c' within a circle (not parentheses, as shown here) and the year MUST be the year of the product's first release isf different from the year it was programmed! Some

AUTO-PLAY should display typical game play. Try to show as many different features of the game as possible. If the game has multiple screens try to show all or many of them. At power-up. scores should be set to zero otherwise the most verent scores should be displayed. Auto-play should incorporate all osse

corrects and allows the user to change these options. The menu mane should also have spoffy graphics, and is thus usually part of the TITLE PAGE or the AUTO-PLAY display. If any came option is A typical menu would be SOUTCE STANDARD ADVANCED EXPERT

1.2.17 Entering Menu Page

Depressing the SELECT key at any time (except in the menu page) will start the MEAN FAME. Moving player 1 % controller in TILLE PARK or ANTO PLAY will start the MEAN PARK or ANTO PLAY will start the MEAN PARK or MEAN TO PLAY WILL ARROW TO PL

Any game using a poystick or trackball must use them to change game options. While in menu page... player 1's centroller should act as follows:

tost - increase difficulty EFT - decrease difficulty F - increase #/players Des - decrease #/players

If the controller position is maintained, the game option should be charged about every hair accord. If the controller was used to start the KNO PACE, there should be a hair second only before the same setting charges the game options.

outrollers will be designed on a per-game benis 1.2.3) Local Game Select

The Rance Game Select is the method of choice due to like convenience, but this is a Sci-computation unit All 700 Campus mast support the standard Sci-computation of the standard Sci-computation of the standard Sci-computation of the difficulty selected by the standard Sci-computation of the standard in Wespiece 11 to the standard in W

If the MELECT switch is held down, the game options should be changed about every half second. If the SELECT switch was used to start the MEMOURAGE, there should be a half second delay before the same depression of SELECT changes the game options:

1.2.4) Leaving Meno Page

Sormally: the player will start a game after melecting his options (see Starting a Game). However, if the player leaves the game in the MEMI MPAIR for 3D seconds or so without changing any options, the game should go to the TITLE PAGE and resume the IDLE SEQUENCE.

...

This section deals with the mechanics of starting passing, and ending game play.

1.3.11 starting a Game

Dejecting the RESET key at any time will seart a new game union the contract game below a present of player 1's fate better the contract game below that a present of player 1's fate better when a game as fatefed with the justice better the game better depression for a game action (lake faring a thort contracted) and the state of the same button depression for a game action (lake faring a thort contracted) much below the same button depression for a game action (lake faring a thort contracted) and the same button depression for a game action (lake faring a thort contracted) and the same button depression for a game action (lake faring a thort contracted) and the same button depression for a game action (lake faring a thort contracted as it is not contracted.

7 3 2) Paris

the PANIE key is only entire during actual same play. None the power key is depressed, video is frome and sadio is turned off After about 15-36 minutes if there is no input from the player, the screen gover blanc. Name three is a blanc occern any controller input including list between the player. The PANIE key should request the game as I it had now present our the PANIE key should request the game as I it had never parsed.

1.3.3) Screen busplay
For the most part screen dusplay of licensed/converted games will

emulate existing recent display thereoe these are offered for consideration in the property and goodlines.

The property control are the property of the prope

displayed on the left side of the screen. However, this is not a held and fast rule and the score in some gives may be - In a 2-player game. If both scores are shown the number and score for player 1 is displayed on the left side of the errors and the number and score for player 2 is displayed to

erreen and the number and ecce for player 1 is supplied to The number of gase lives it sundicated by game life merches and the player subject on the steem. For game life came lives for the game life suffers and the player subject of defect occurs until the player is down to has lest peaking defect occurs until the player is down to has lest peaking [if a pa indicated by the player is object to the streen. Dample: If " is the game life marker and the player has three game lives left if the dated be suppressed."

the player's object on acreen) instead of "3 -*" or some su scheme: If applicable, level of play should be indicated on screen

1.3.4) Game End

A mass OVER message should be displayed at the send of each payer goes reling which player is out of the game. When all payer is the send of each payer is the payer is the send of each payer is the send of each payer is the send of each payer is the payer is the send of each payer is the payer is the send of each payer is the pa

1.4) Gaza Options This section deals with the various options the player can choose. Most opens maturally fall into the Che Player or "Two Player Atternating" and dama programmers are enougraged to suppore the possibilities of Conference are consumpted in 2-player sitementing some player. I opticle should be descrived while

I.4.1) Difficulty Settings

all genes should provide a range of difficulty settings. This is to provide a fin gene for extreme transport and distribution of the provide and the state of the state of the state of settings will change from game to a season projected of settings will change from game to take a sample projected of the state of the

standard.

Standard.

Standard.

Advanced

Advanced

Expert: The same standard serving serving

Expert This is a 'kiler' setting but not so hard that no one will be able to enjoy it. This is a 'for the kide who play your game every day and get very. Very good at it. Heep in mind that they aren't putting quarters in.

I.4.2) Competitive Pla

Competitive play is a version where one player is playing predominately against the other player, and the objective is to have a higher score at the end of the game than the other player.

In competive play, the players can kill each other typically by shouting each other. Points are awarded to the player who killed the other.

polligious between players can be death for both obstructive collisions or just passing through depending on what makes sense for the game Each player has an individual score displayed on the

Each player has an individual pool of lives which is displayed on the screen. When a player is killed, he inner on e of these lives Gameplay might stop at any death, or continue smoothly depending on the came death, or townings smoothly depending on the game. Wictory is based on high score at game s end. A message such as "Player 1 WINS" should be displayed

The name ends when both players are out of lives or one player is out and the other player has more points.

1.4.3) Team Play

when play is a version where both players are playing together as a test and the objective is to maximize the team score. Some The players cannot kill each other-There is a common pool of lives that the players pull from When either player dies a life is lost from the

from when either player dies, a life is lost from the common phol). If the pool runs out: and the remaining mlayer gains a borus life. It is given to the inactive player The game ends when the lives run out and both minutes are dead There may be a common score and individual scores 1.4.4) Selecting Competitive and Team Play

COMPETITIVE and TERM play are selected by increasing the number of players Thus COMPETITIVE play is the next option after the players and townstrive play as one make option attention maximum number of players and TEAM play after competitive play of ourse, a game could have one of these options but not the

I.5) Controllers

For a 1-player game, always read the left-most controller. For a multi-player came, assign controllers from left to right Controllers should only be shared for Games which use all controllers for one player (like Games with more players than controllers Games which use non-standard controllers should support poysticks if possible. Any mixture of valid controllers should be allowed for multi-player gases. Games should support simple-button 2000

The difficulty switches can be used to select options not appropriately displayed on the menu screen, or they may be used in the time-honored 2000 tredition.

Players of differing skills may be handicapped by using the

Players of differing skills may be handicapped by using the difficulty switches. The left position is the easier setting and the right position; is the more difficult setting. Many game using these particles should poll them frequently.

SECTION II: CODING STANDARDS

II 1) Memory Allocation II 1.1) NOW Allocation

All games should go up to SFFFF (where the vectors are) down as for as they need. All RAM should be below all ROM. BOM has to start on a \$1000 byte boundary

The memory between STYEO and SFFET is reserved for an entryption key. This space must be fulled with FFE to the full women two locations have special meanings

- SFITS Region verification 'Just put an SFF bere. - SFFFE 25' The X is the start of your RGS If you atent at 80010, this should be SGT. The Y is there to alectify most 2000 certs (smediately (they won't usually start of the your RGS).

II 1 3) Vectors

All vectors (SMI Start 190) must point to within the code Setting unused vectors should point to an MTI "gust in case" If 31 Startup

opens cannot around that may state is instituted or second when the cart is powered or it is promished that the secondary Rock might presently leave the mechanism scene state, but a future base unit might have a different security Rob or news at all leach as the PAL machine; the following things should be done in all carts on SCHOLDERPOTCH, this looks the machine in 7800 mode

- SOT to IMPROTEL this looks the machine in 7800 mode - SEI Cab to initialize 6500 Stelps - SFF to CTE. To then bed off Sime equivalent may be used but DO NOT store anything with the 880 but on used but DO NOT store anything with the 580 but on

siO to GFTEET for future expension.

500 to INFICTRL make sure Joysticks do not freeze.

507 to S: or whatever you went.

Also, do not assume that RAM is barced.

11.3) No- Defeat Mode

In a non-release version of all games, a no-defeat mode should be included for test, documentation, and sales purposes. A way is needed for us moderately-skilled games to see the higher levels of play.